

Title (en)
EXHAUST GAS PURIFICATION CATALYST

Title (de)
ABGASREINIGUNGSKATALYSATOR

Title (fr)
POT CATALYTIQUE D'EPURATION DES GAZ D'ECHAPPEMENT

Publication
EP 2022563 A4 20100825 (EN)

Application
EP 07744329 A 20070529

Priority
• JP 2007060910 W 20070529
• JP 2006148094 A 20060529

Abstract (en)
[origin: EP2022563A1] An ability of oxidizing CO and HC is improved, while achieving a sufficient efficiency of burning PM. An exhaust gas-purifying catalyst includes a filter substrate (1) in which upstream and downstream cells (13a, 13b) separated by a porous wall (11) are formed, the upstream cell (13a) being open on an upstream side of the filter substrate (1) and closed on a downstream side of the filter substrate (1), and the downstream cell (13b) being closed on the upstream side and open on the downstream side, a precious metal supported by the filter substrate (1), and an alkaline metal and/or alkaline-earth metal supported by the filter substrate (1). A support amount of the alkaline metal and/or alkaline-earth metal per unit volume of the filter substrate (1) is greater in an upstream section (1a) of the filter substrate (1) than in a downstream section (1b) of the filter substrate (1).

IPC 8 full level
B01J 23/58 (2006.01); **B01D 53/86** (2006.01); **B01D 53/94** (2006.01); **B01J 35/04** (2006.01); **F01N 3/02** (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP US)
B01D 53/944 (2013.01 - EP US); **B01J 23/58** (2013.01 - EP US); **B01J 35/19** (2024.01 - EP US); **B01J 35/56** (2024.01 - EP US); **B01J 37/0205** (2013.01 - EP US); **B01J 37/0242** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 2510/0682** (2013.01 - EP US)

Citation (search report)
• [X] JP 2001207836 A 20010803 - TOYOTA MOTOR CORP
• [X] US 2004175315 A1 20040909 - BRISLEY ROBERT JAMES [GB], et al
• [A] EP 1396617 A2 20040310 - MITSUBISHI MOTORS CORP [JP]
• See references of WO 2007139113A1

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EP2322773A1; EP2556885A4; US8397488B2

Designated contracting state (EPC)
DE FR GB

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EP 2022563 A1 20090211; **EP 2022563 A4 20100825**; CN 101432068 A 20090513; CN 103962133 A 20140806; JP 2007313477 A 20071206; JP 5193437 B2 20130508; US 2009246098 A1 20091001; WO 2007139113 A1 20071206

DOCDB simple family (application)
EP 07744329 A 20070529; CN 200780015532 A 20070529; CN 201410160420 A 20070529; JP 2006148094 A 20060529; JP 2007060910 W 20070529; US 29528407 A 20070529